

Figure 1

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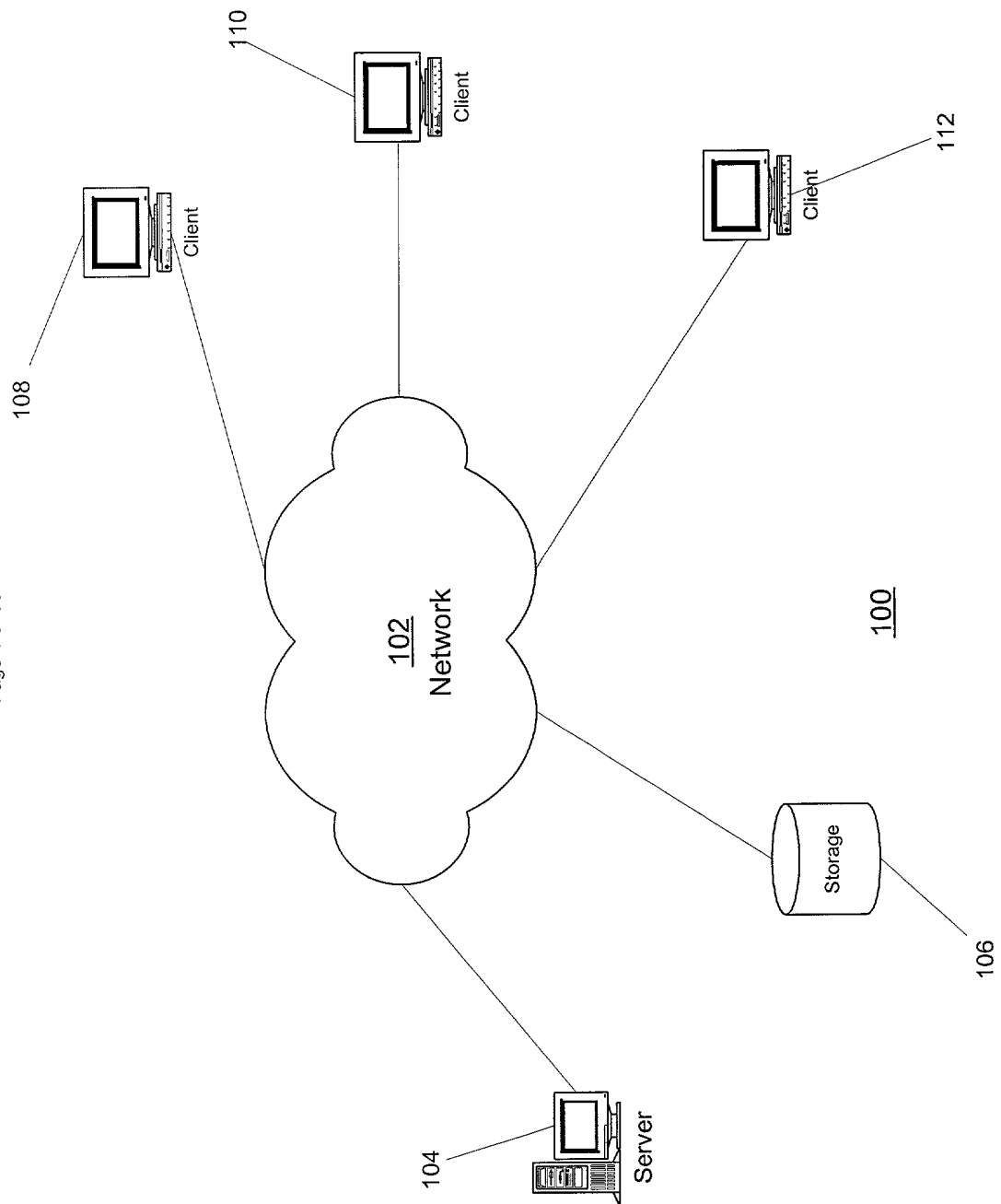
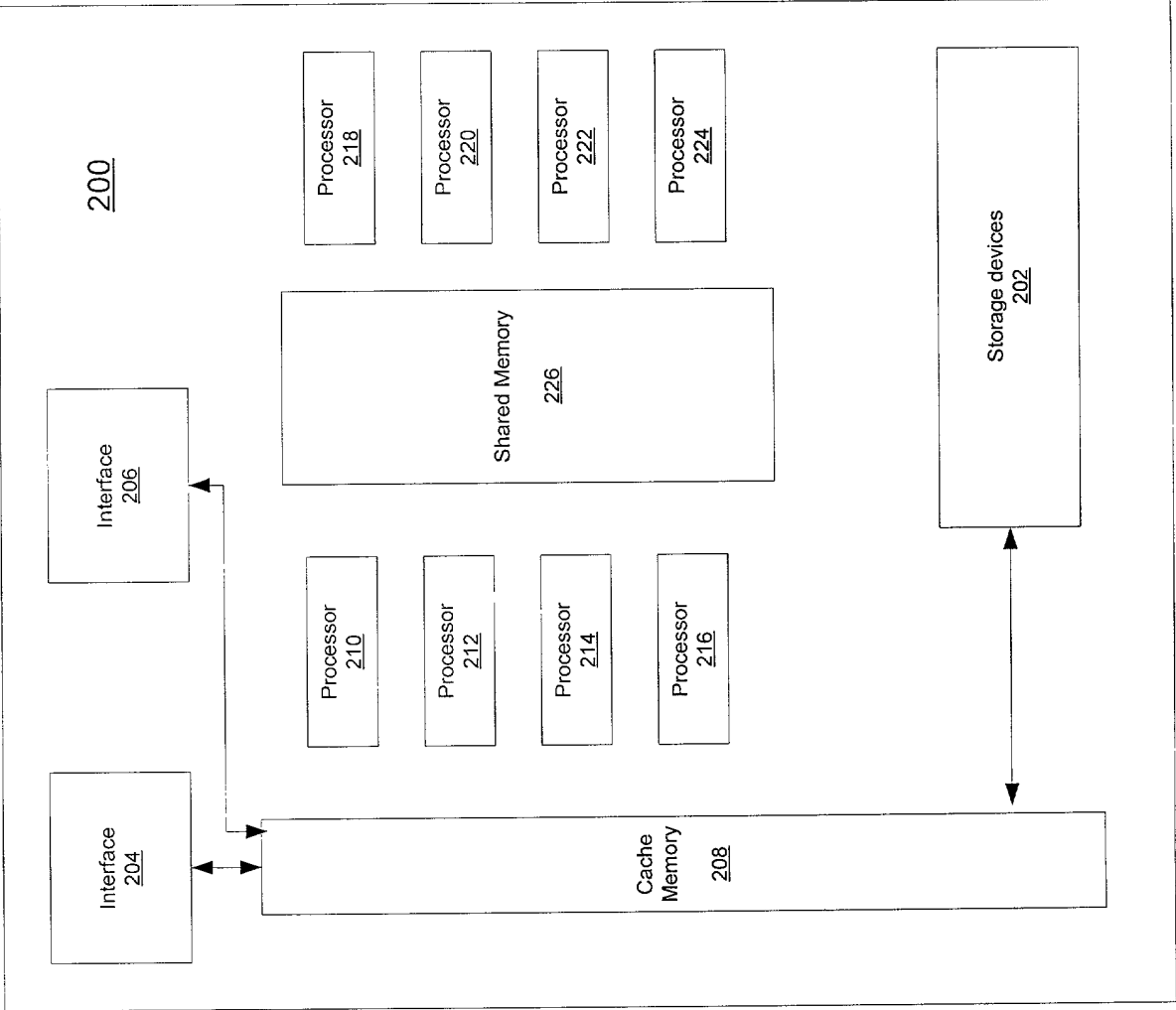


Figure 2
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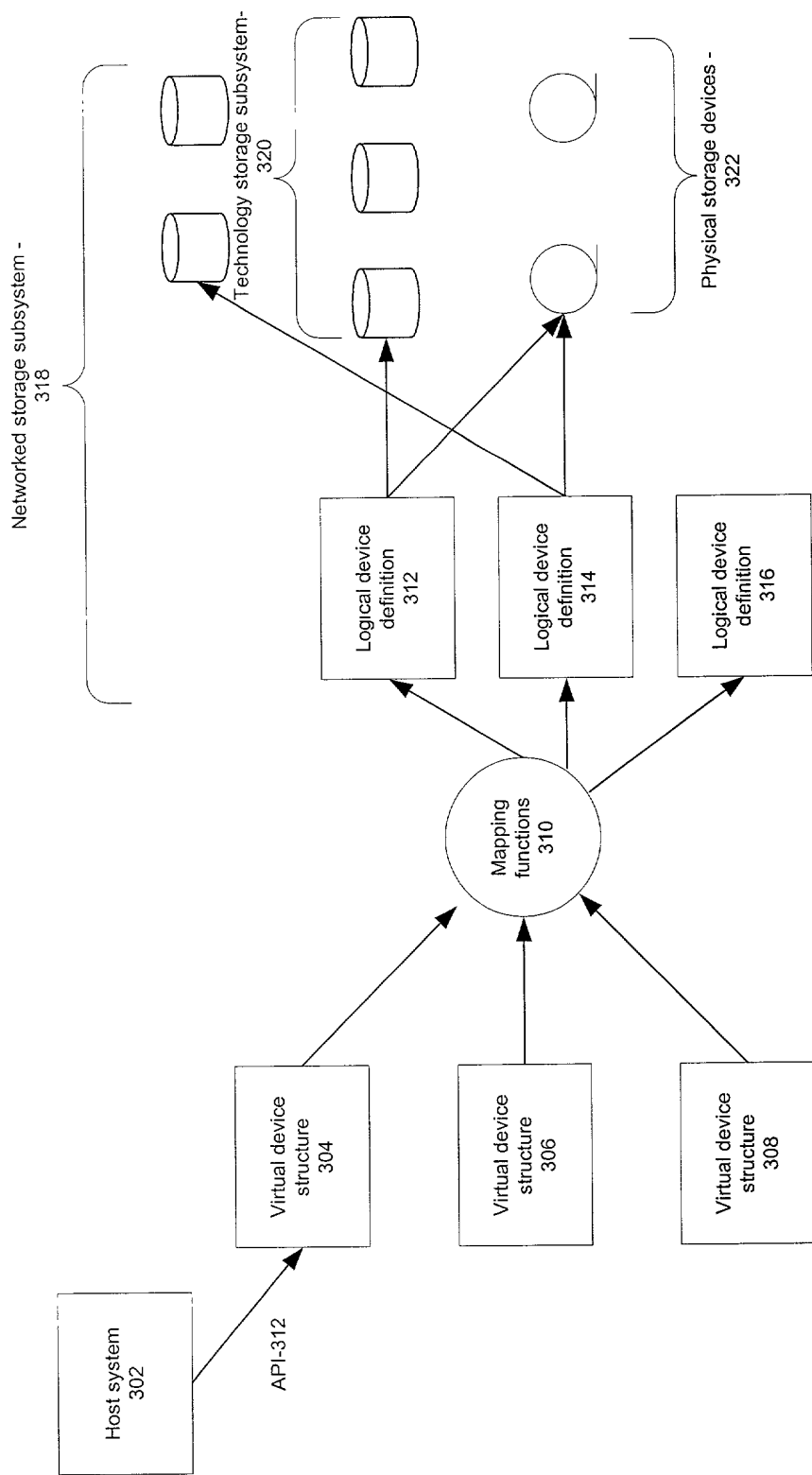


Figure 3

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402

RAID stripe group A

Data - records n_j through n_k ; records n_{y+1} through n_z

404

RAID stripe group B

Data - records n_{k+1} through n_x ; records ...

406

RAID stripe group C

Data - records n_{x+1} through n_y ; records

Figure 4

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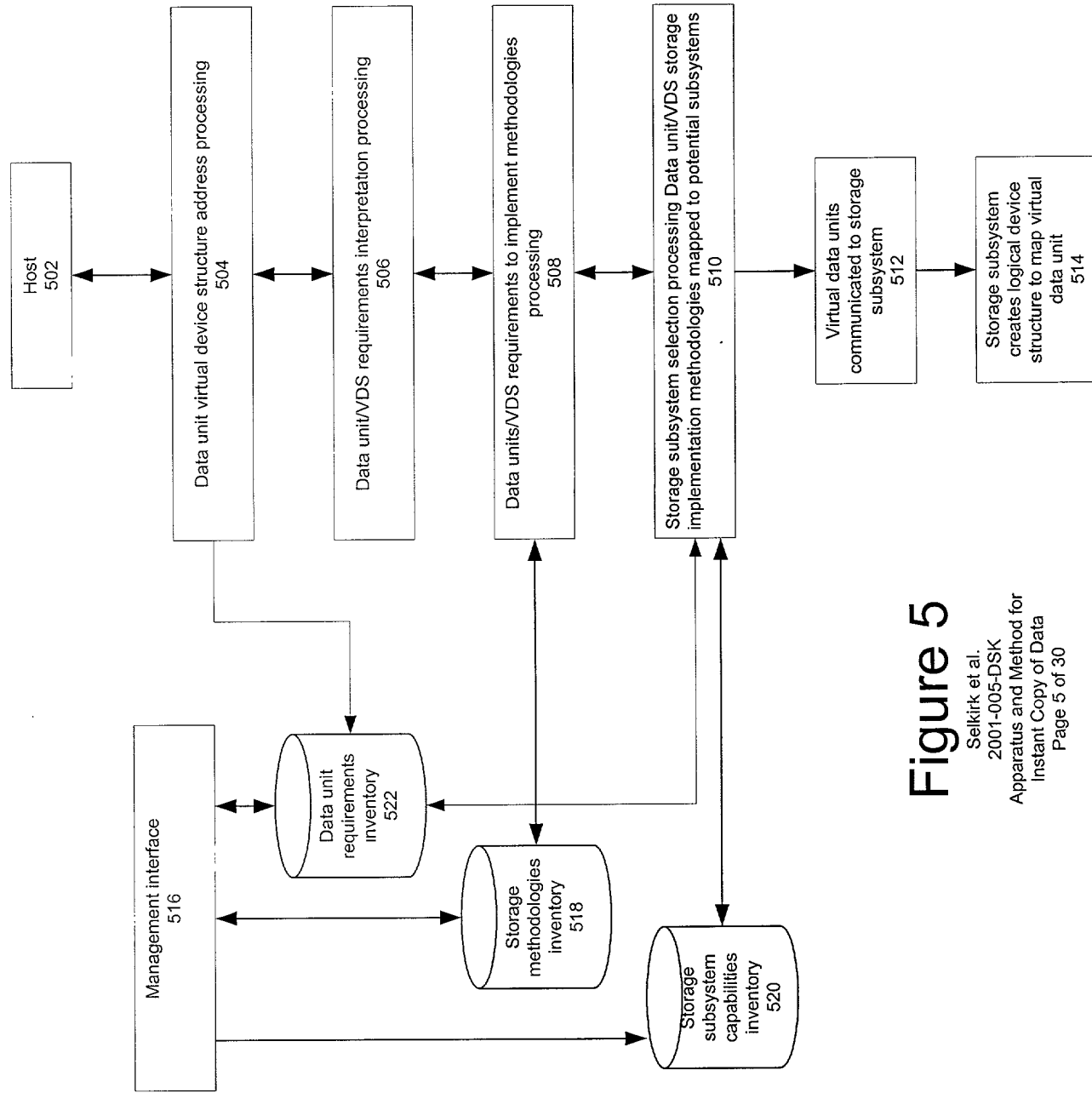


Figure 5

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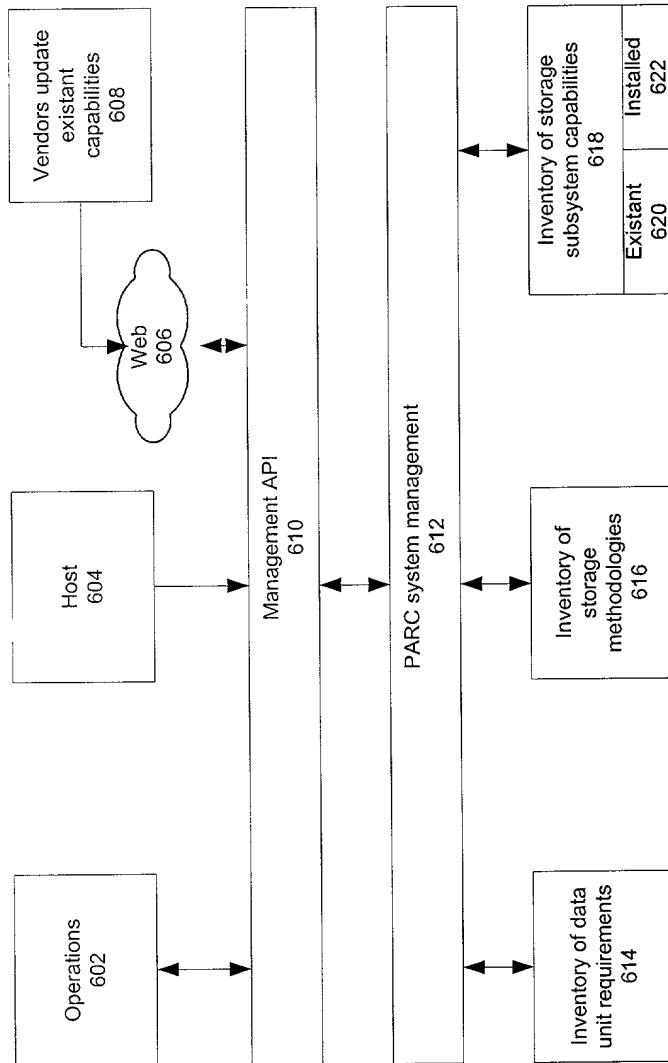


Figure 6

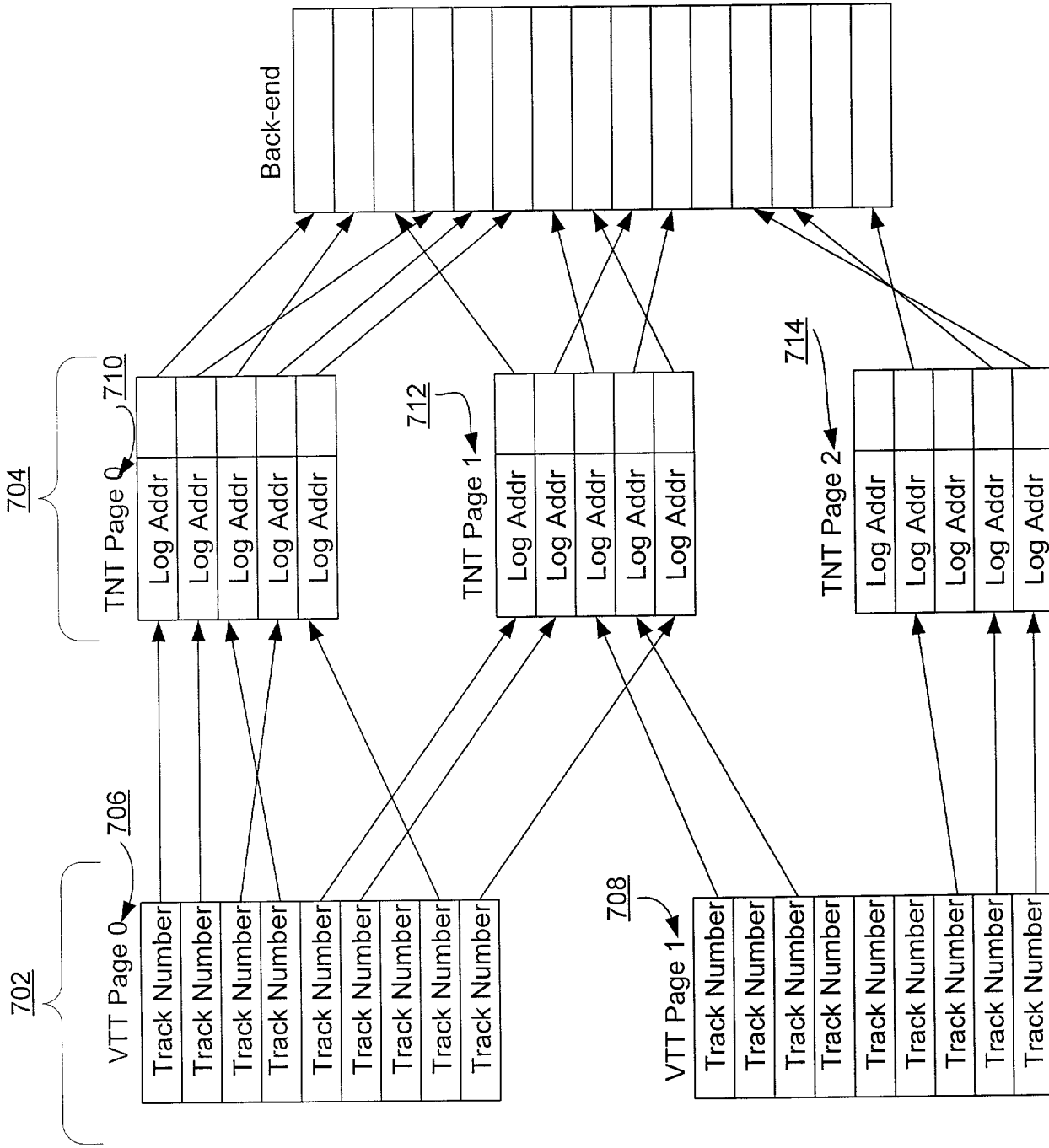


Figure 7

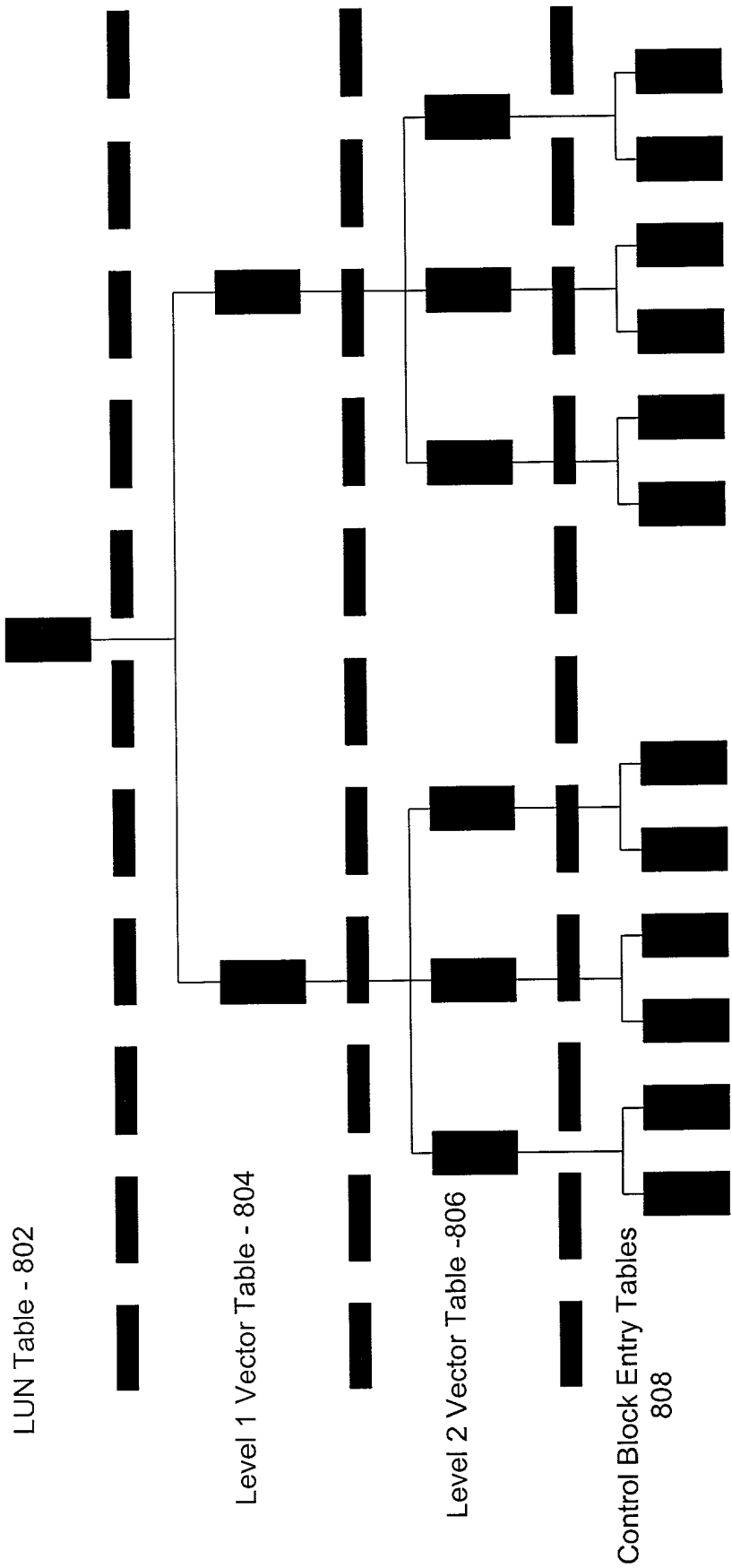


Figure 8

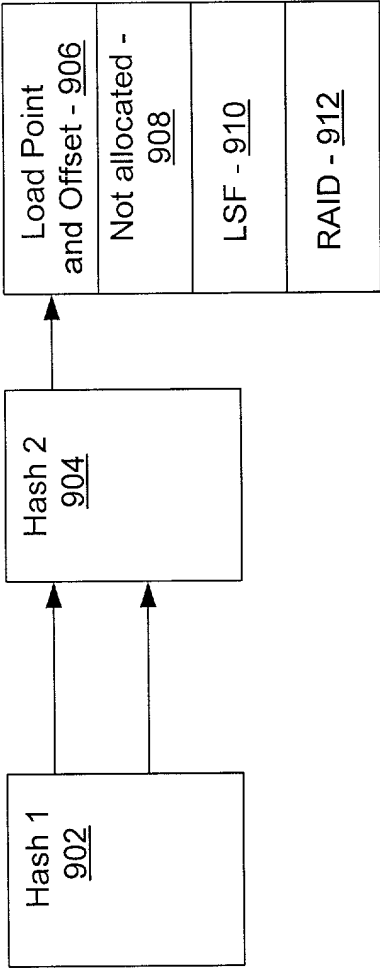


Figure 9

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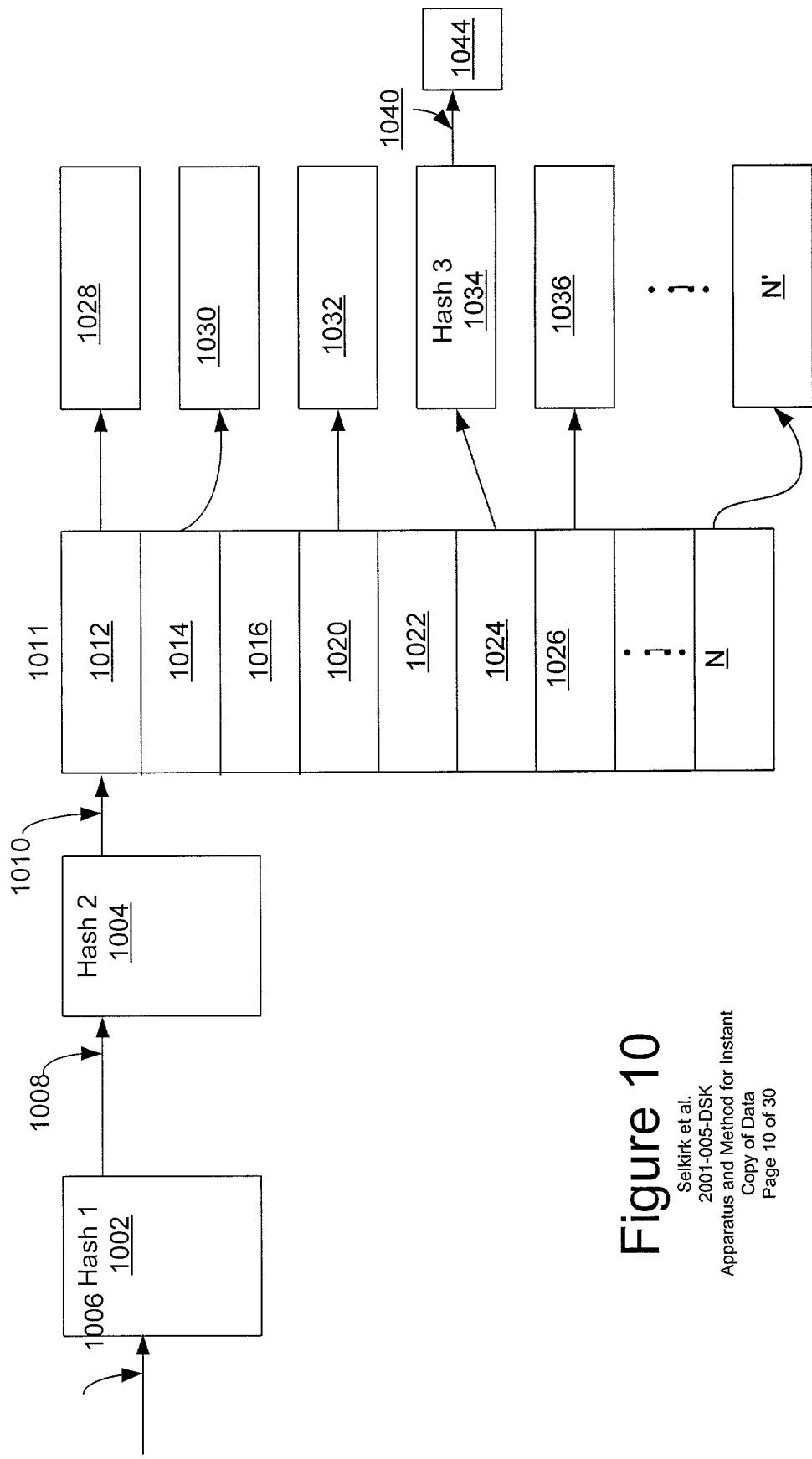


Figure 10

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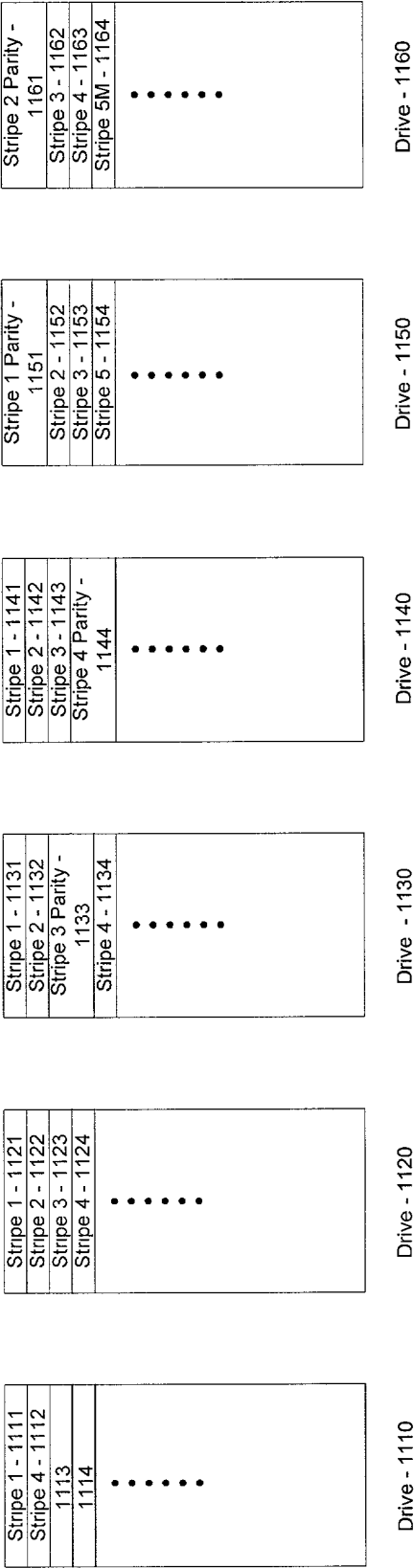


Figure 11

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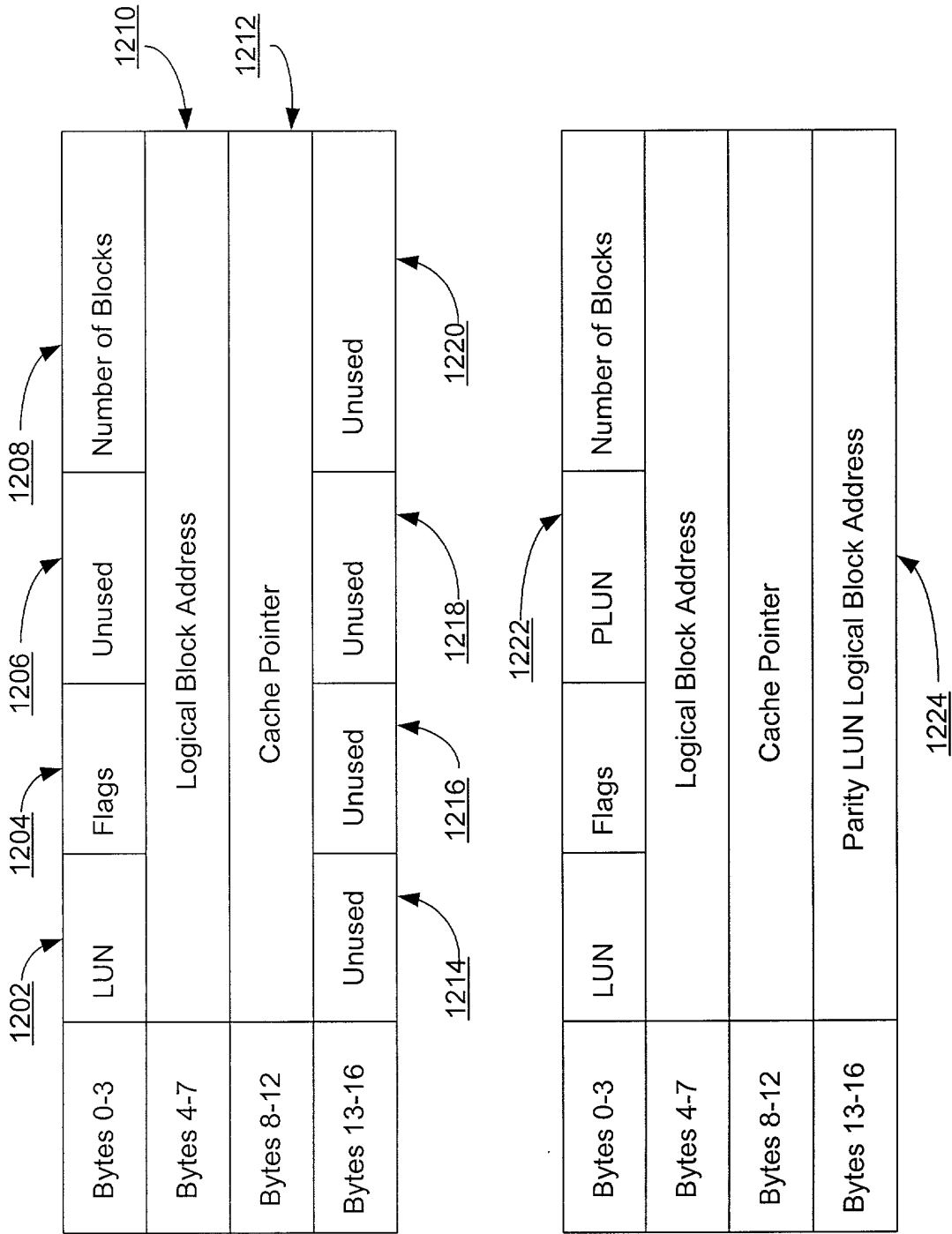
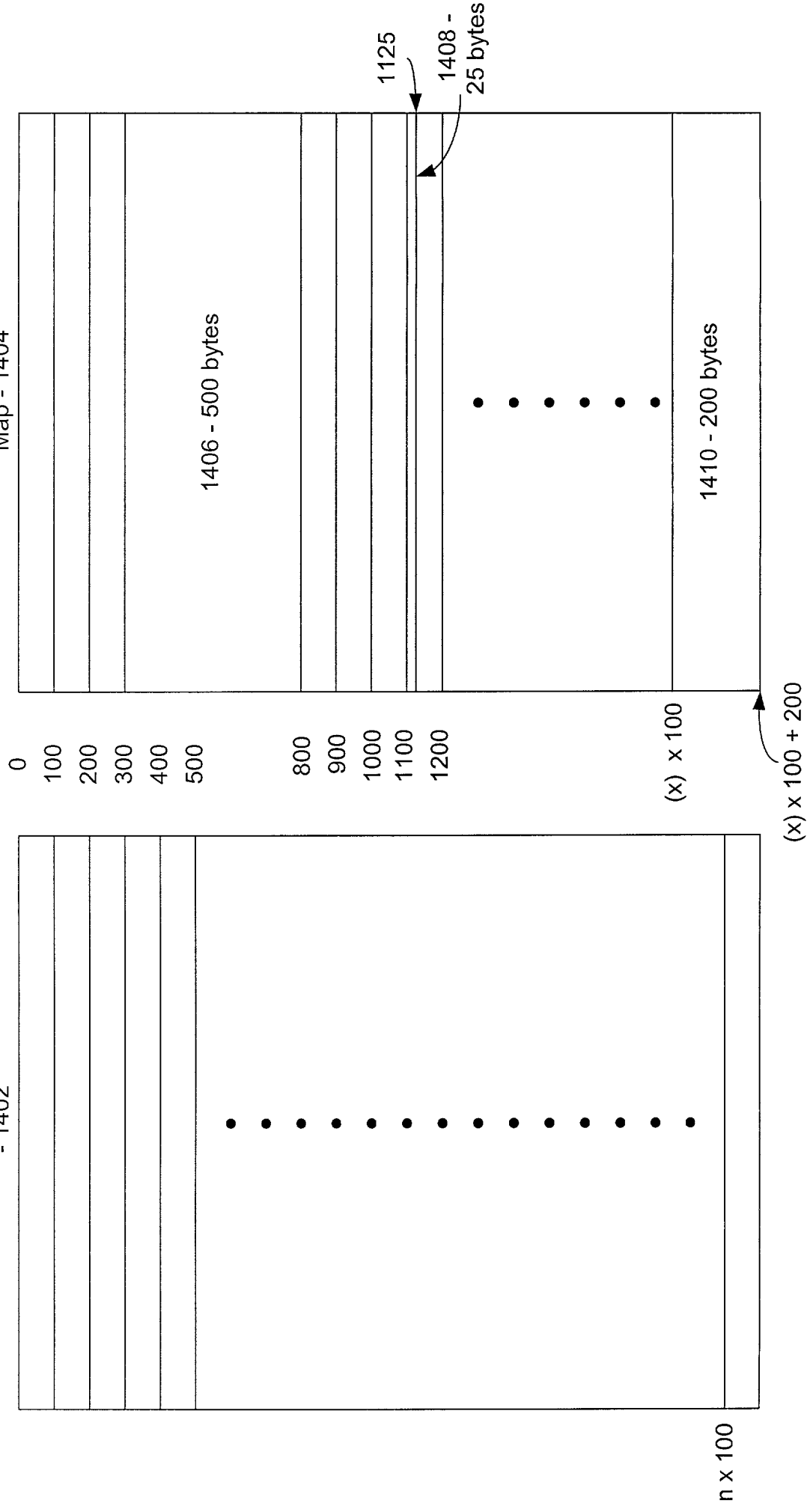


Figure 12

Timestamp			
LBA of previous stripe			
Previous stripe LUN	Index of parity drive	RAID type of stripe	# of strips in stripe
Strip size in blocks			
1st LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on 1st LUN			
2nd LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on 2nd LUN			
Nth LUN in stripe	Active count	# of host pieces in strip	Unused
LBA of data on Nth LUN			
Host LUN	Length in strip	Host Length	
Host LBA			
Host LUN	Length in strip	Host Length	
Host LBA			

Figure 13



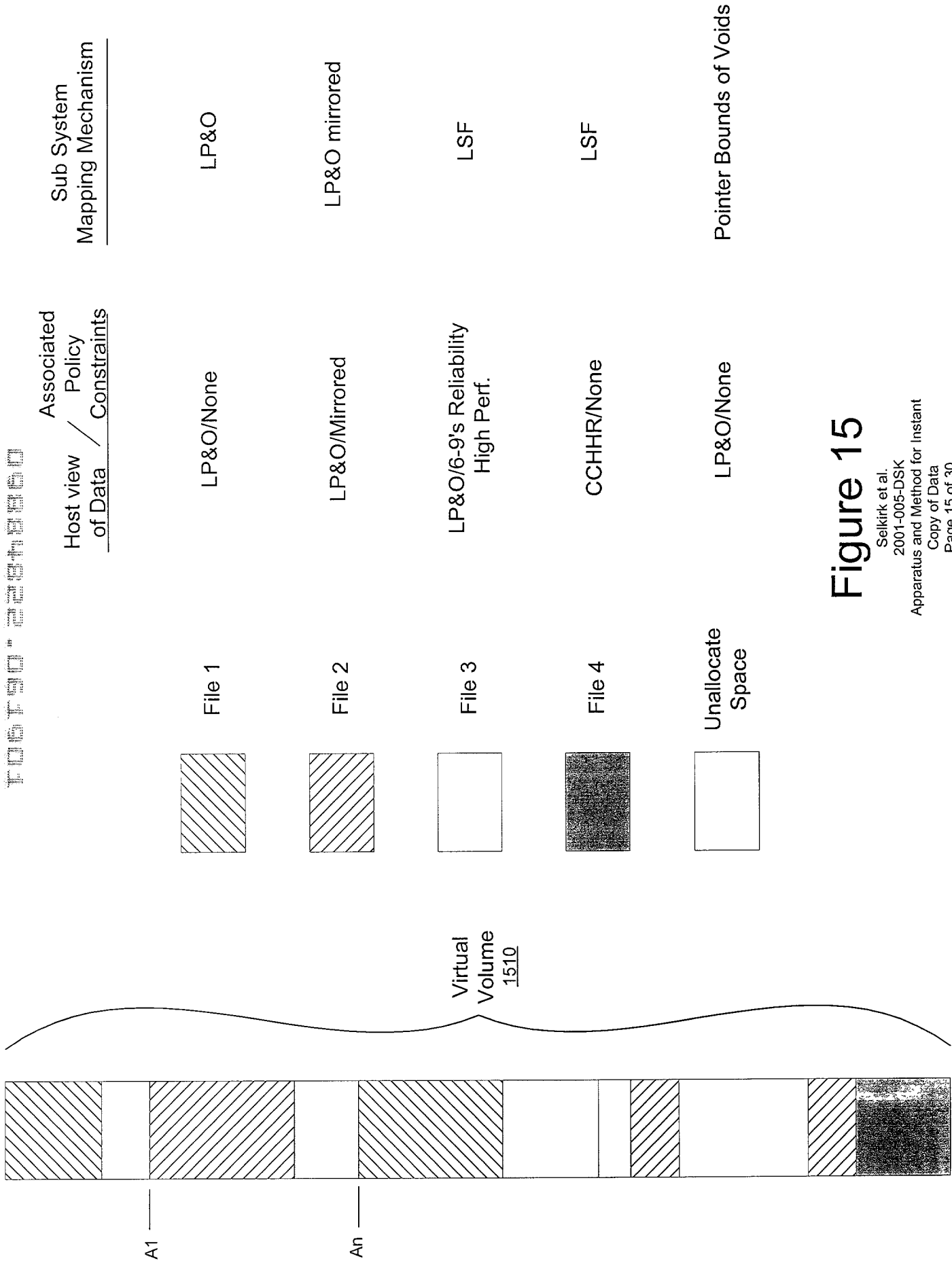
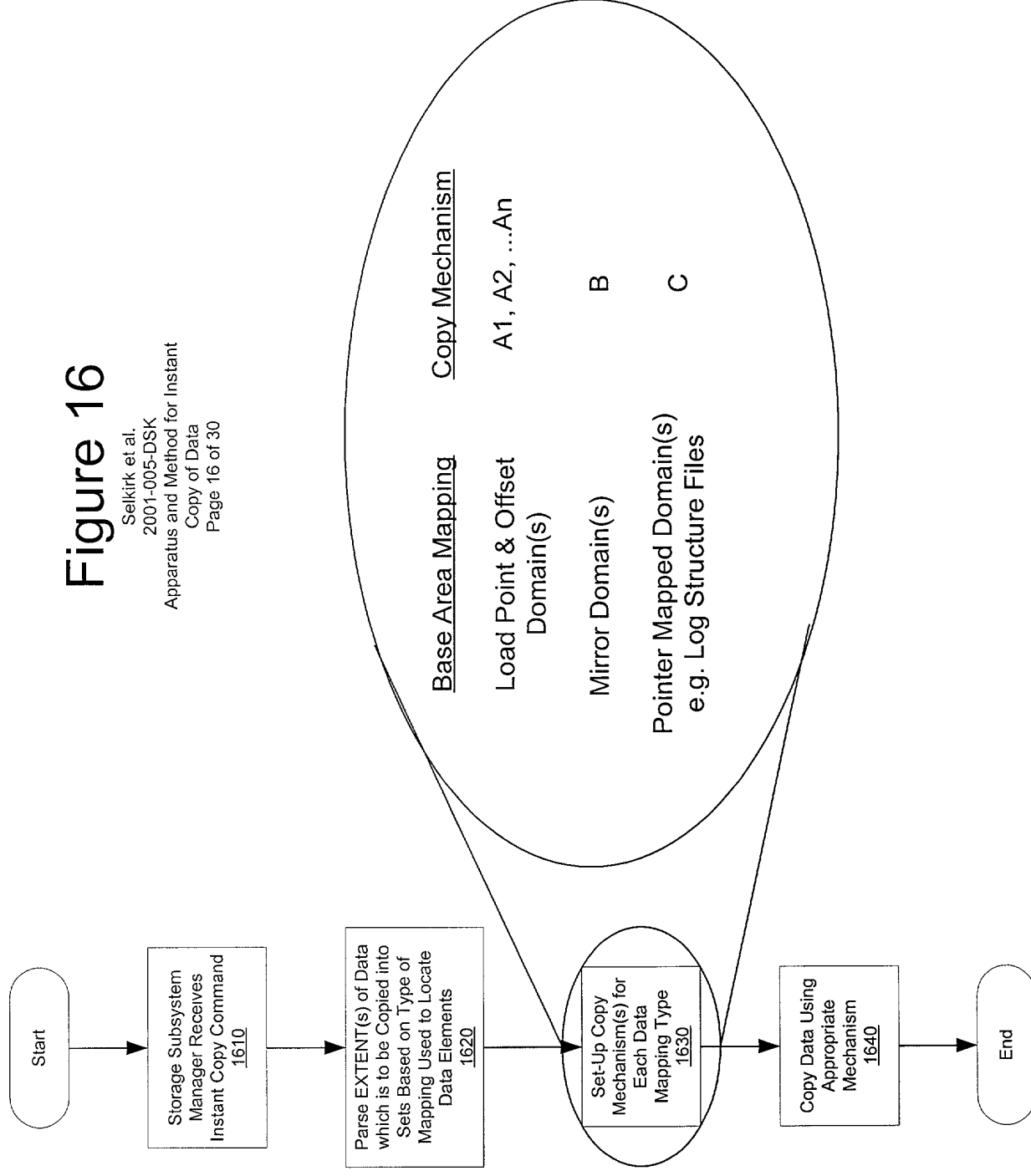


Figure 15

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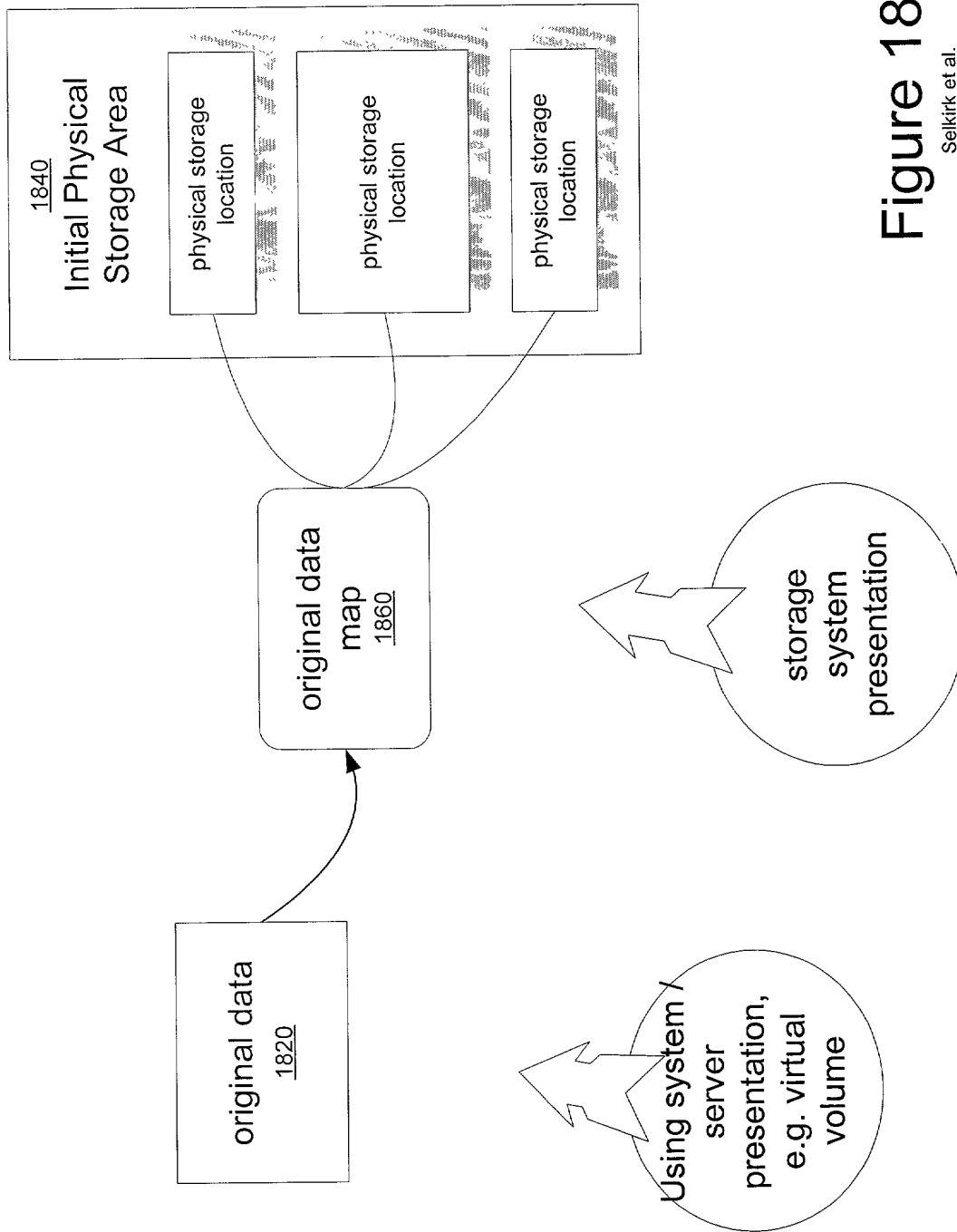


Figure 18A

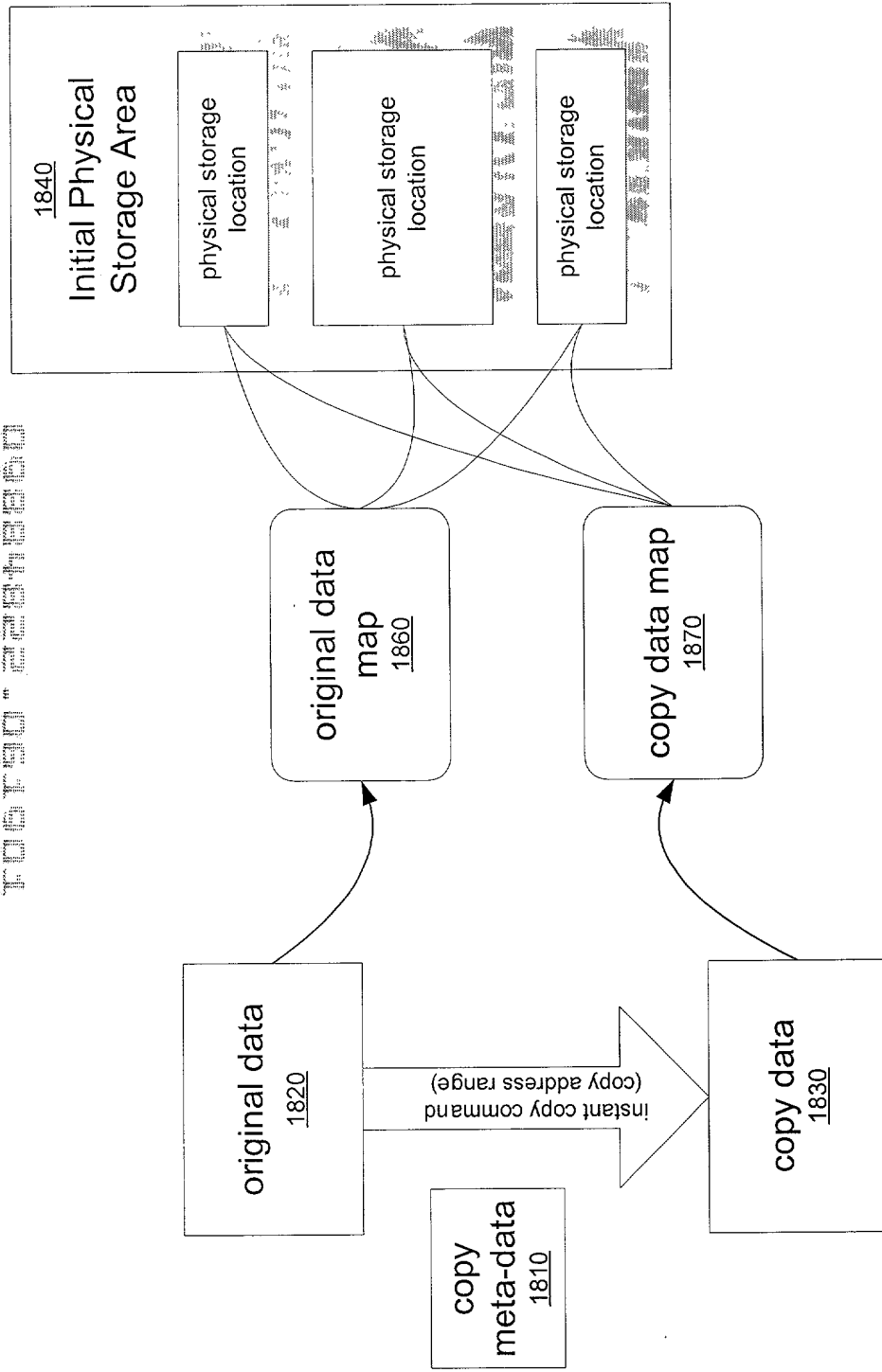


Figure 18B

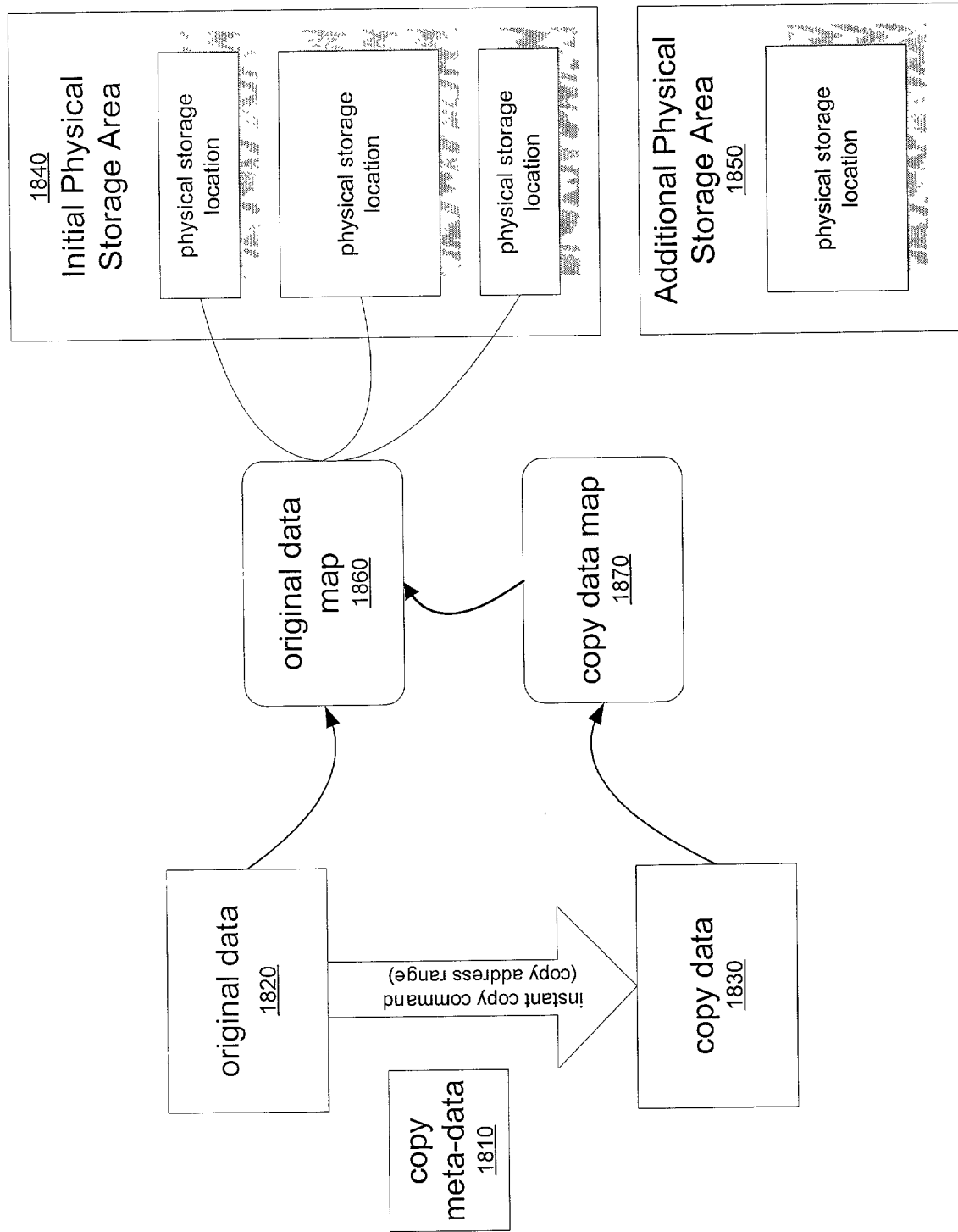


Figure 18C

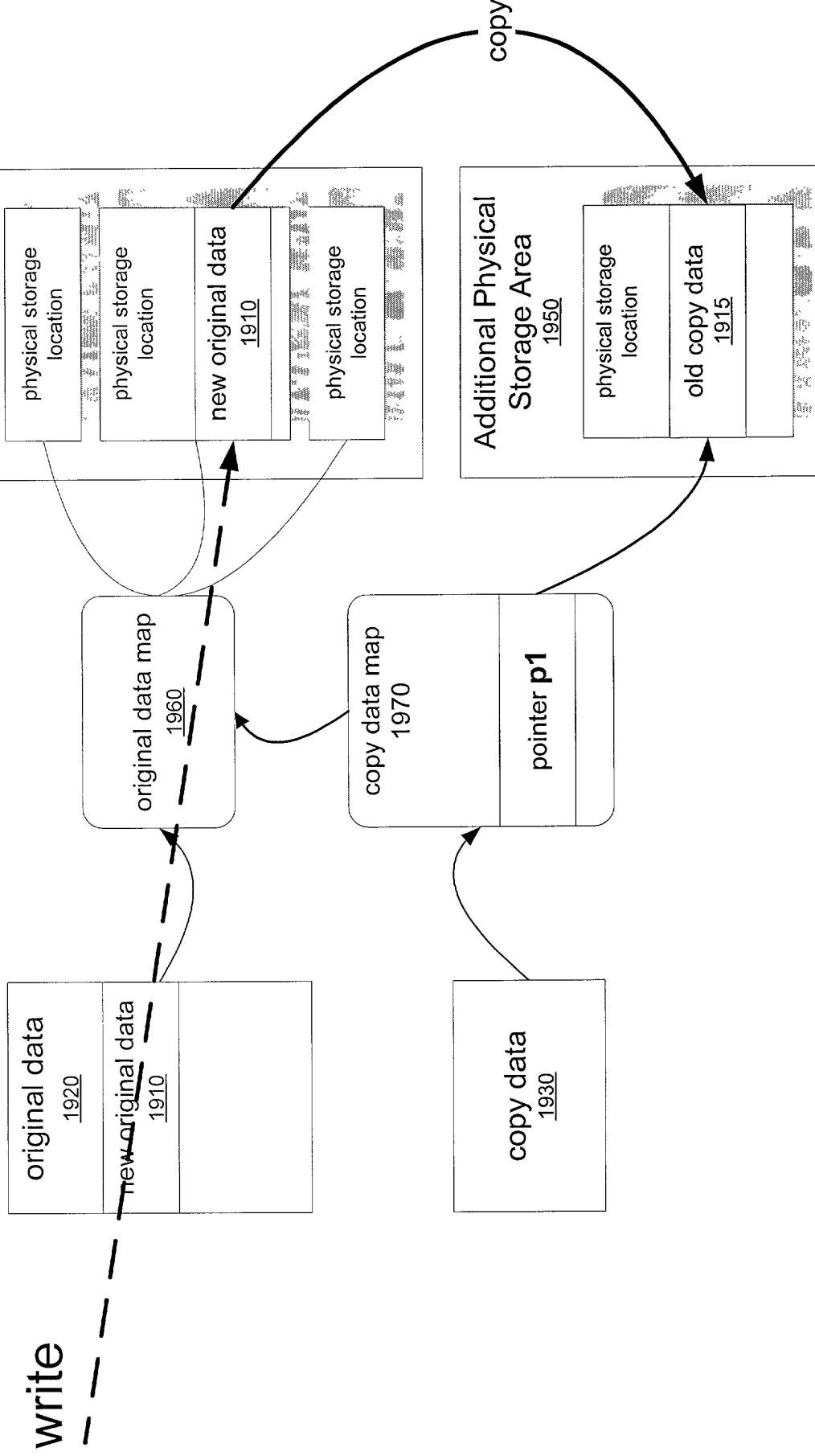


Figure 19

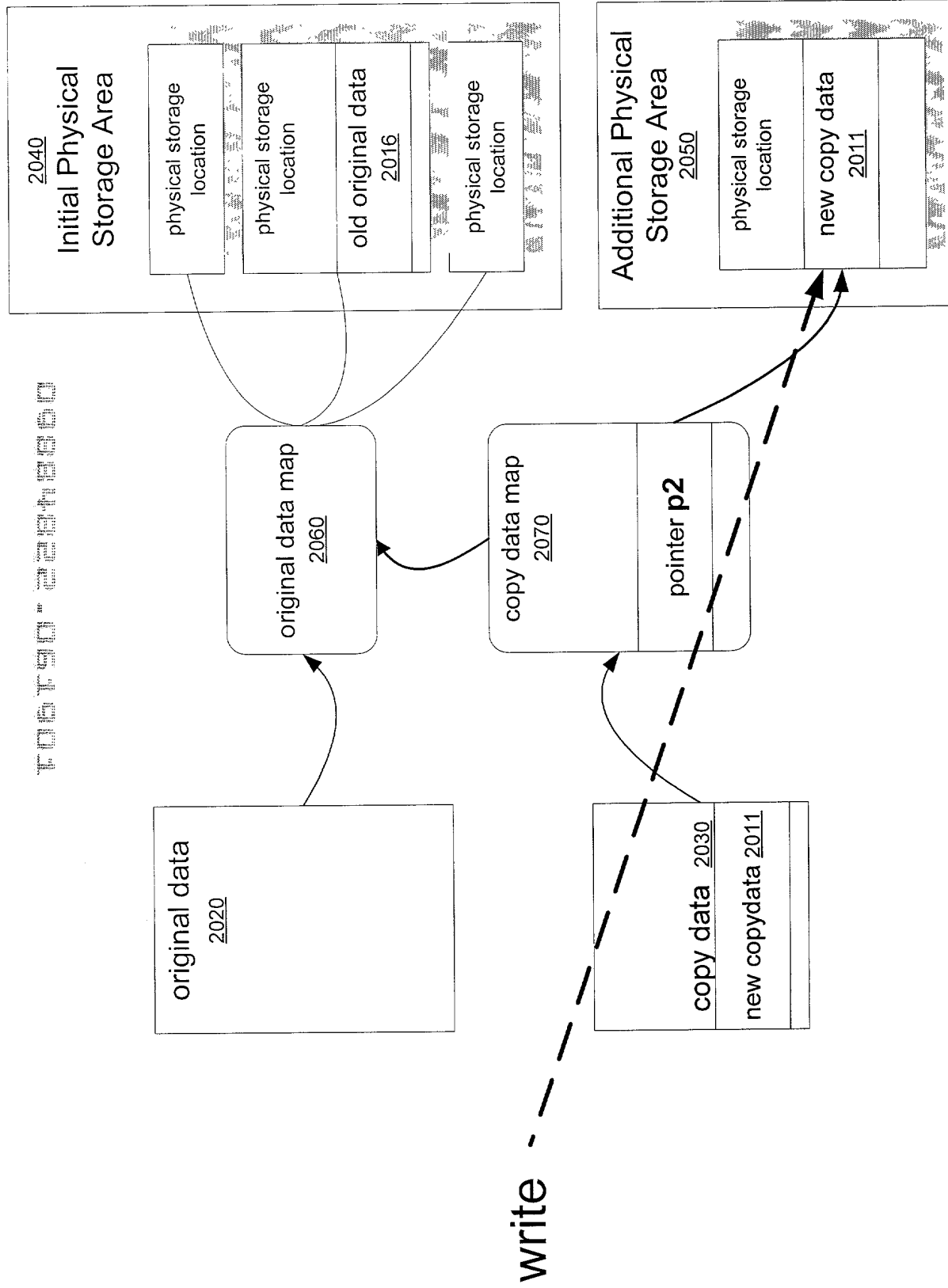


Figure 20A

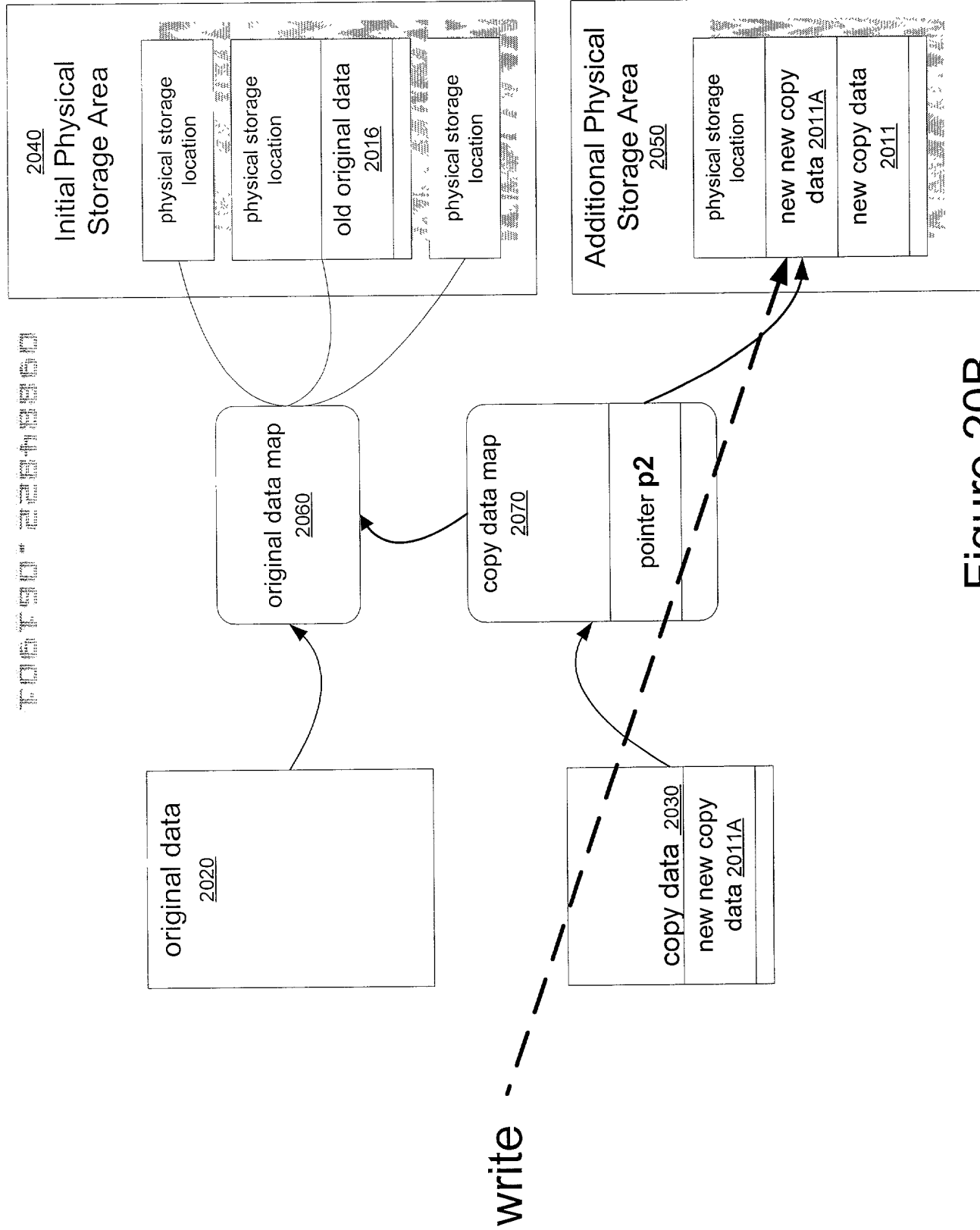


Figure 20B

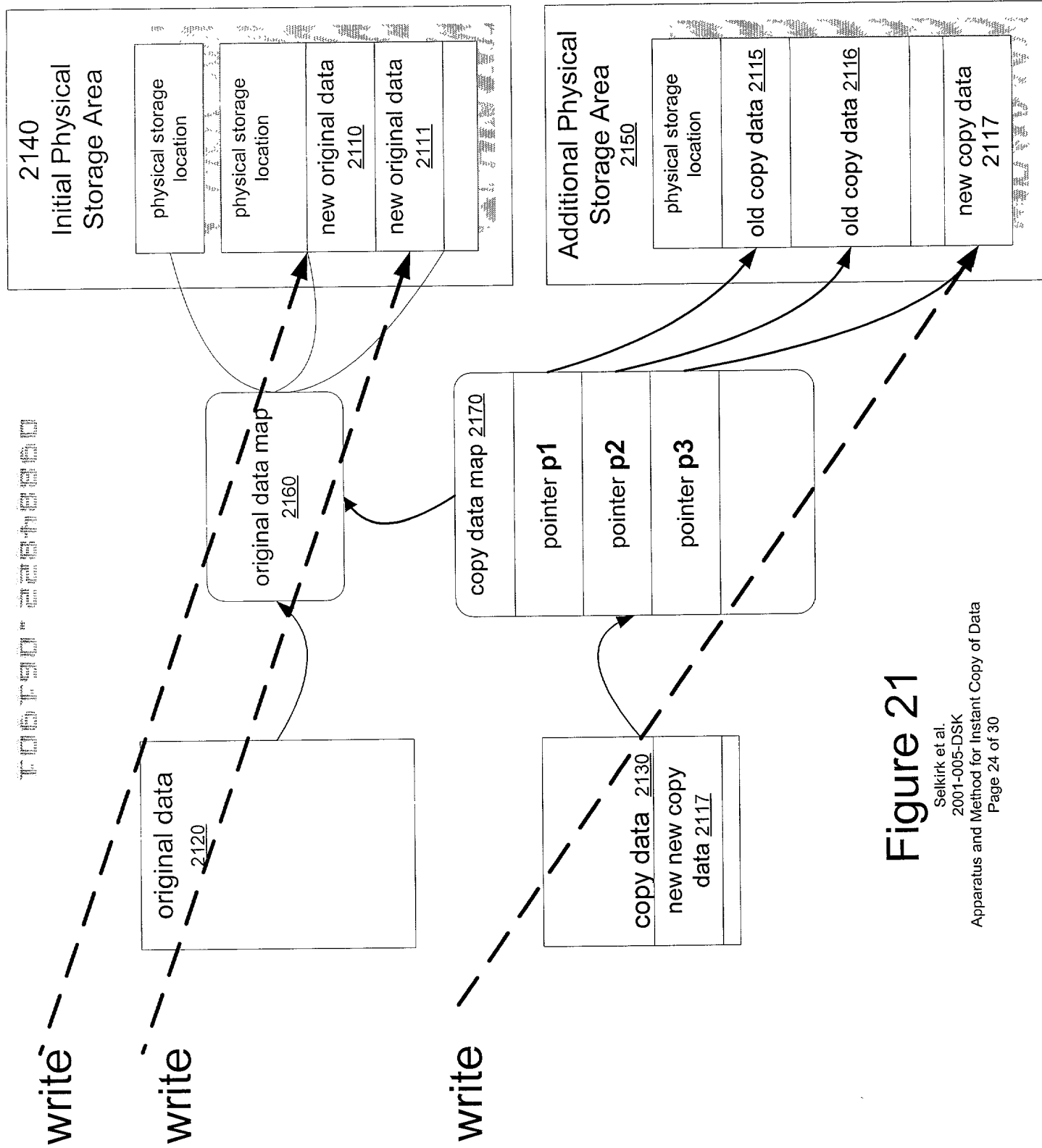


Figure 21

write

write

write

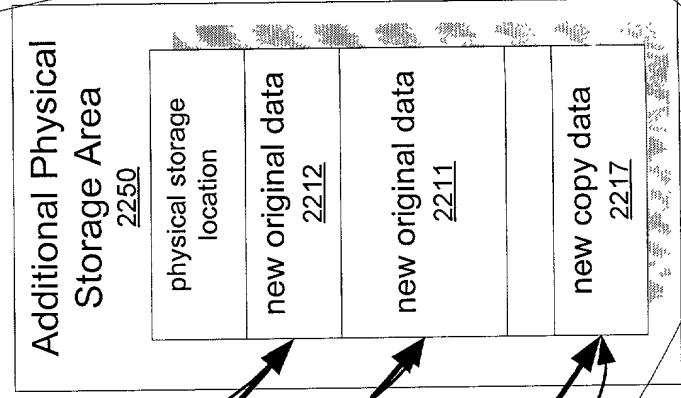
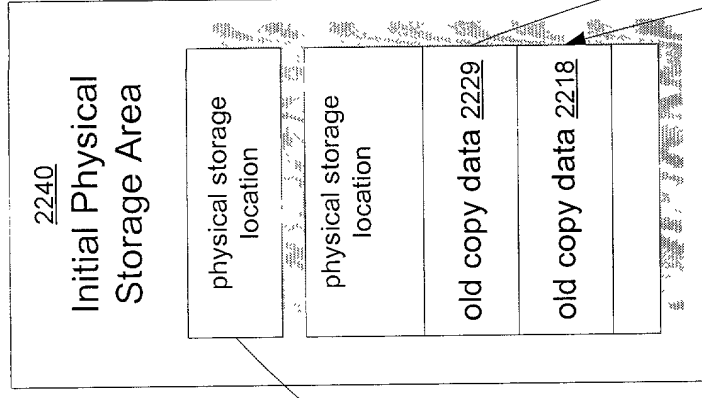
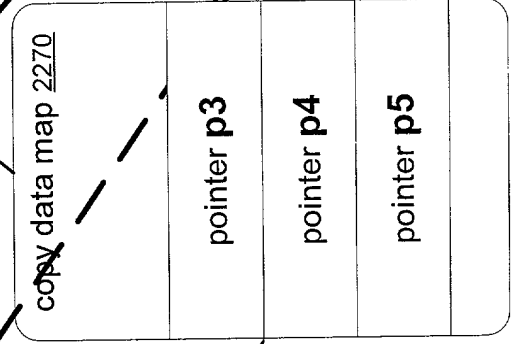
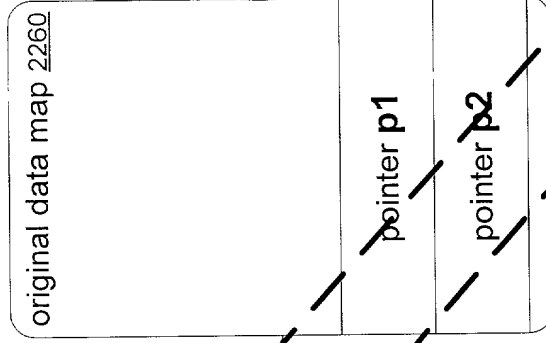
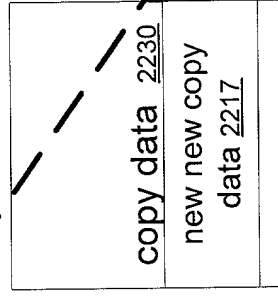
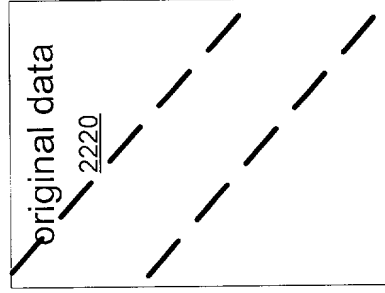


Figure 22

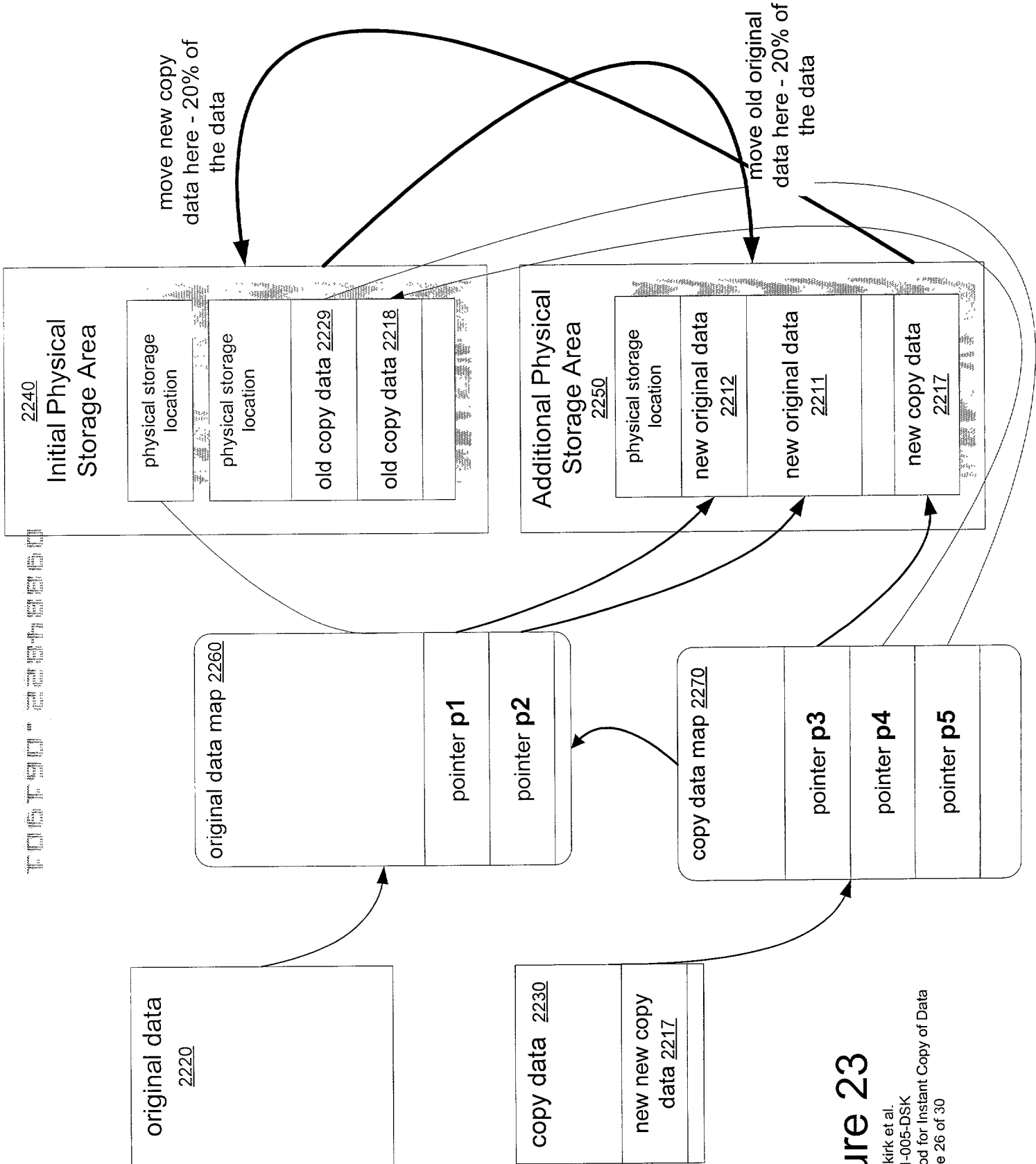


Figure 23

Figure 24A

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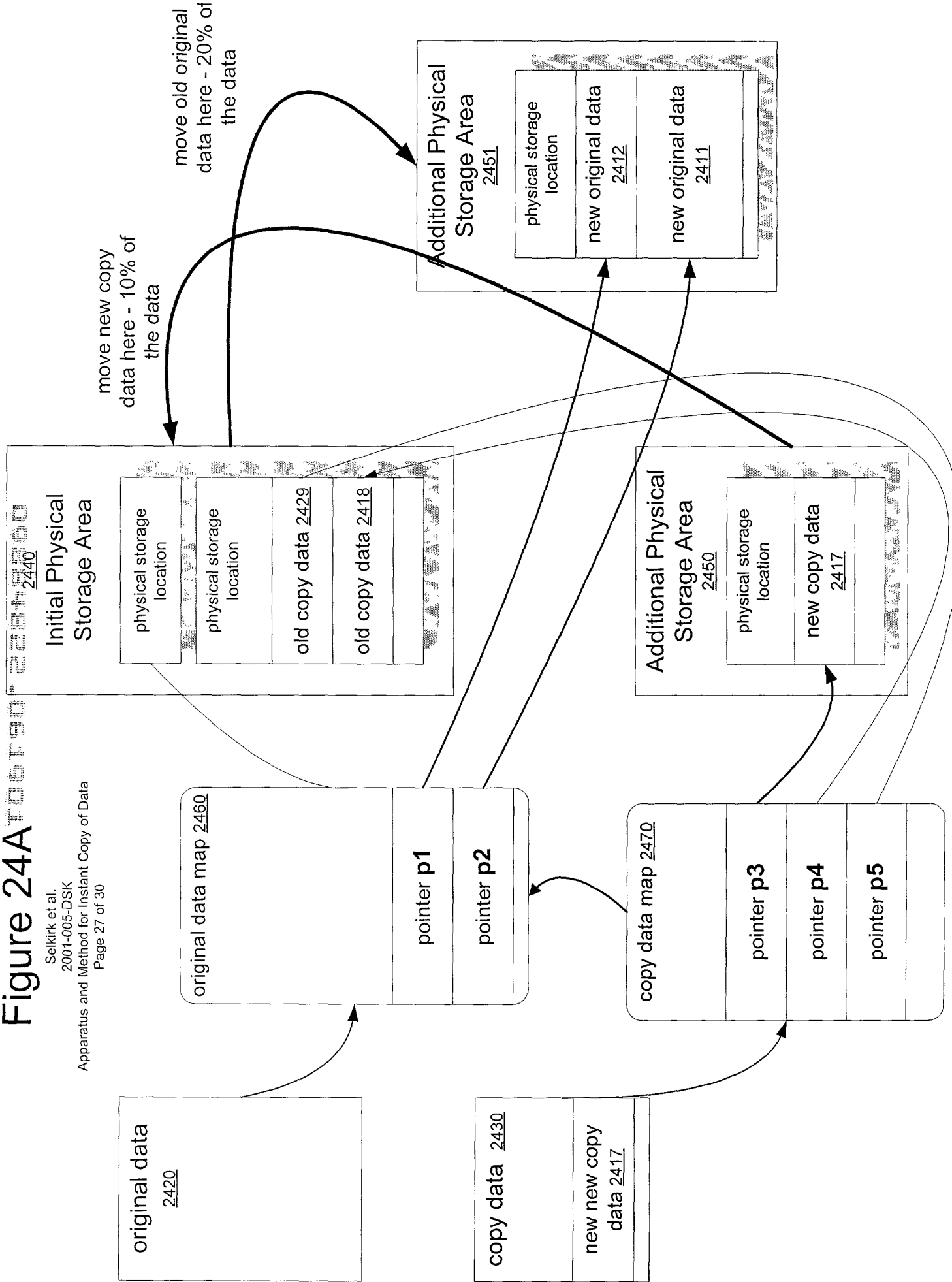


Figure 24B

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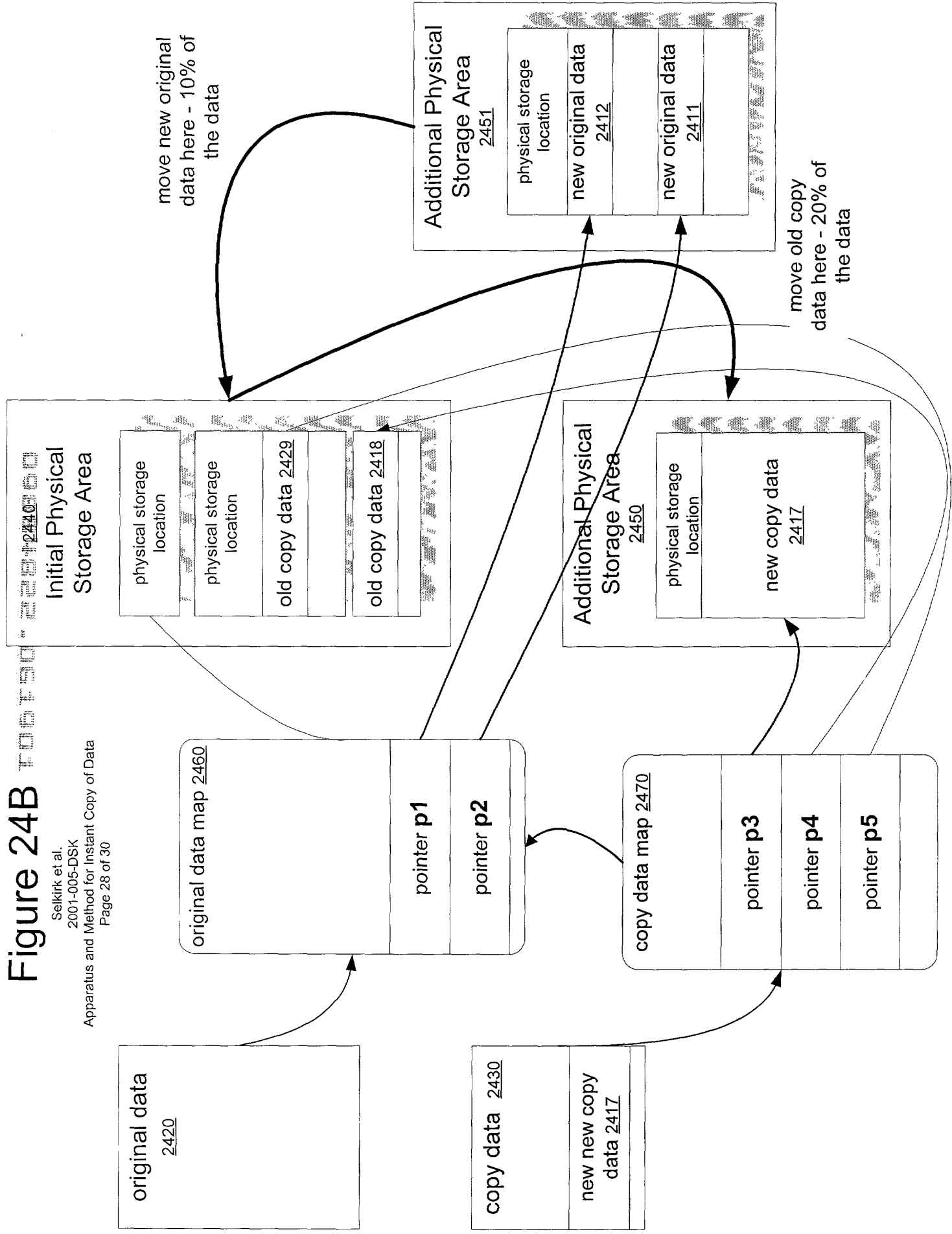
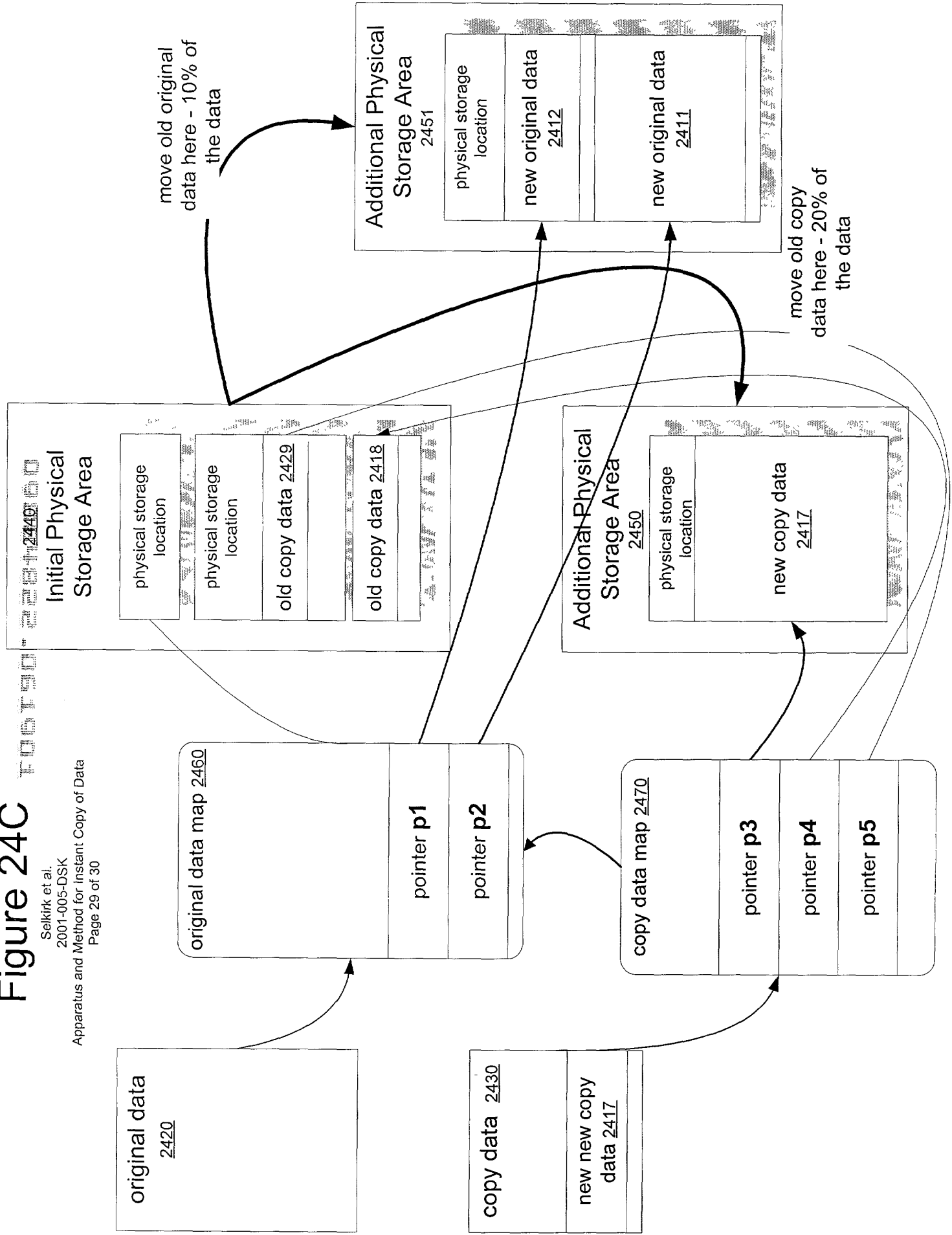


Figure 24C

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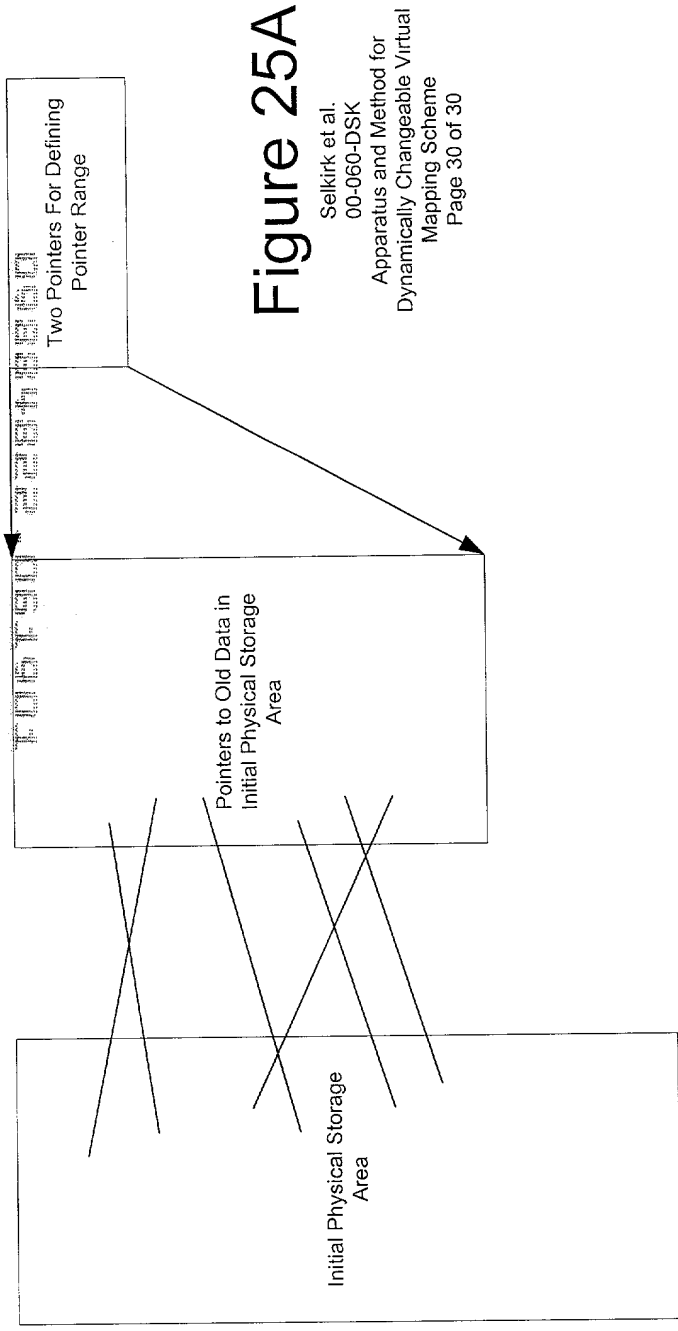


Figure 25A

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Dynamically Changeable Virtual
Mapping Scheme
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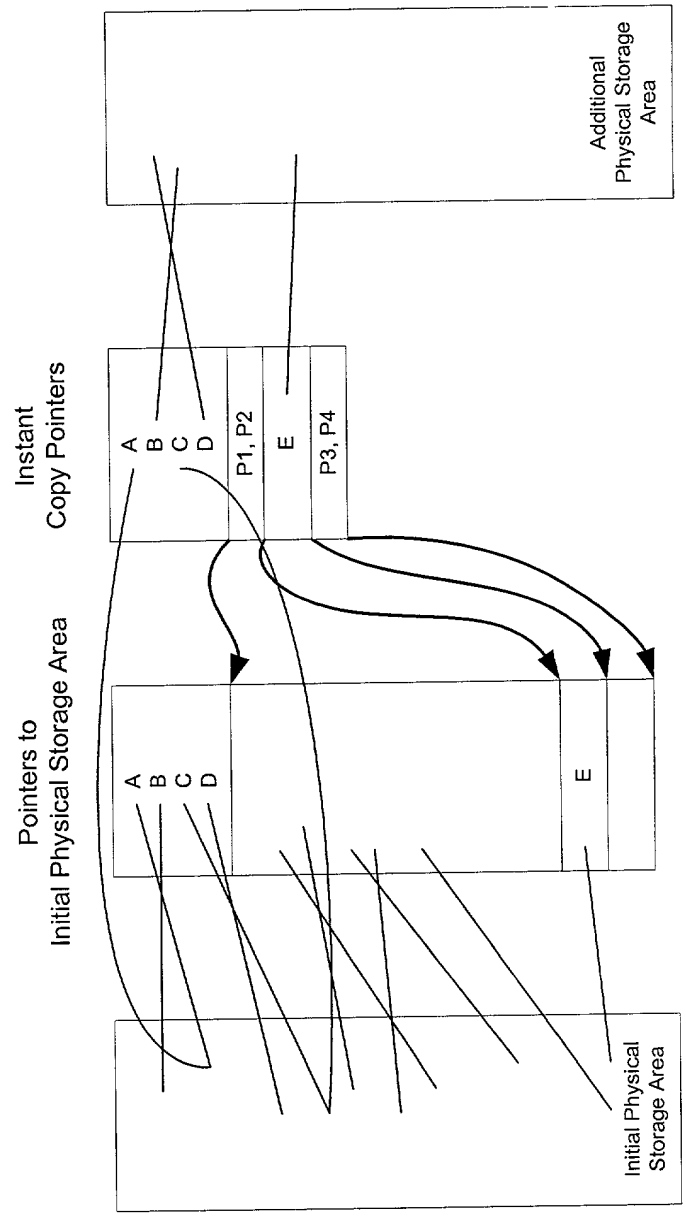


Figure 25B

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